

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

PATENT CLAIMS

We claim:

1. (Currently amended) Switching A switching converter, in which an a said input voltage (U_E) can be switched by means of at least one said-controlled switch (S) to at least one said-primary winding (W_P) of a said-transformer (UET), with a said-control circuit (AST) for controlling the switch, to which a said-regulating signal (S_R) in the sense of the regulation of at least the said an output voltage is sent, wherein the a power supply of the said-control circuit (AST) takes place via the a forward voltage of a saidan auxiliary winding (W_1) of the said-transformer, a said-first rectifier (D_2), a said-capacitor (C) and a said-series regulator (LAE), on the one hand, and, on the other hand, starting from the said an input voltage (U_E), via a current path (R_s) and a said-storage capacitor (C_s),

characterized in that wherein

the off-state voltage of a said the auxiliary winding ($W_1; W_2$), which is rectified by means of a said-second rectifier (D_4) is additionally sent to the said-control circuit (AST) for power supply, wherein the said-rectified off-state voltage is used to supply the said control circuit during the operation as long as it has a sufficient voltage level.

2. (Currently amended) Switching The switching converter in accordance with claim 1, whereincharacterized in that a second another said-auxiliary winding (W_2) of the said transformer (UET) is provided to generate the off-state voltage, the said-off-state voltage being used via a said the second rectifier (D_4) directly to supply the said-control circuit (AST).
3. (Currently amended) The switching Switching-converter in accordance with claim 1, whereincharacterized in that the said-forward voltage as well as the said-off-state

voltage are taken from ~~a said common~~the auxiliary winding {W1}, wherein ~~said first~~ uncoupling/rectifier diodes {D2; D2'} rectify the said forward voltage and lead to the said series regulator {LAE}, and ~~said additional~~ uncoupling/rectifier diodes {D4; D4'} rectify the said off-state voltage and lead to the said supply voltage terminal of the said control circuit {AST}.

4. (Currently amended) Switching converter in accordance with ~~one of the claims 1 through 3~~claim 1, wherein ~~characterized in that~~ the output of the said series regulator {LAE} is connected with the said storage capacitor {Cs} via ~~a said~~an uncoupling diode {D3}.
5. (New) The switching converter in accordance with claim 2, wherein the output of the series regulator is connected with the storage capacitor via an uncoupling diode.
6. (New) The switching converter in accordance with claim 3, wherein the output of the series regulator is connected with the storage capacitor via an uncoupling diode.